



**CIVIL
ENGINEERING**

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTUK, KAKINADA) (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI)
 Accredited by NAAC with 'A' Grade Recognised as Scientific and Industrial Research Organisation
 CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.De., A.P., INDIA :: PIN: 534 204

Dr. M.Jagapathi Raju

M.Tech. (IIT,KGP), Ph.D.(A.U.), F.R.MINTE,
 PRINCIPAL (Ue.)



Phones: Off : EPAEX :08816-223332 Ext.201
 College :08816-222748
 Fax:08816-224516
 Mobile No.9848773515
 Emails: profmiraju999@gmail.com
 principal@srkrec.ac.in
 Web Site : www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CE/3

Date: 11-04-2019

Sub: Appointment of BoS members for Civil Engineering (CE) department-Reg.

The following members are nominated as Board of Studies members for the Department of Civil Engineering. This order will come into force with immediate effect until further orders.

S. No	Name	Position in the committee	Associated with
1	Dr. P.A.R.K. Raju	Chairman	Professor & HOD, Dept. of Civil Engg, SRKREC
2	Dr. M. Jagapathi Raju	Faculty of each Specialization	Vice Principal (Academics) & Principal, Dept. of Civil Engg, SRKREC
3	Dr. A. Subrahmanyam Raju		Professor Dept. of Civil Engineering, SRKREC
4	Prof. V. Siva Rama Raju		Professor, Dept. of Civil Engineering, SRKREC
5	Prof. K. Bhaskar		Professor, Dept. of Civil Engineering, SRKREC
6	Prof. V. Rama Raju		Professor, Dept. of Civil Engineering, SRKREC
7	Dr. B.R. Phani Kumar		Professor, Dept. of Civil Engineering, SRKREC
8	Sri K.Padmanabha Raju		Assoc Prof. Dept. of Civil Engineering, SRKREC
9	Sri V.Venkateswara Raju		Assoc Prof. Dept. of Civil Engineering, SRKREC
10	Dr. A.C.S.V.Prasad		Assoc Prof. Dept. of Civil Engineering, SRKREC
11	Dr. M.Viswanadham		Experts from Other Universities
12	Dr. K. Sudhakar Reddy	Professor, Dept. of Civil Engineering, IIT Kharagpur, Kharagpur-721302	
13	Dr. T.D. Gunneswara Rao	Professor, Dept. of Civil Engineering National Institute of Technology Warangal,	
14	Dr. S.R.K. Reddy	Professor & Mentor (AS&A), Dept. of Civil Engineering Gudlavalleru Engineering College, Gudlavalleru, Krishna District	
15	Dr. V.Sreenivasulu	JNTUK Nominee	Professor, Dept. of Civil Engineering, (UCEK), JNTUK, Kakinada - 533003
16	Prof. D.S.R. Murthy	AU Nominee	Professor & Chairman, BOS, Dept. of Civil Engineering, Andhra University, Vizag
17	Dr. P. Gandhi	Expert -Research Organization	Chief Scientist, CSIR-Structural Engineering Research Center, CSIR-SERC, Taramani,
18	Dr. P. Kodanda Rama Rao	Expert from Professional Body	Chairman, IE(I) AP State Centre, Dr. K.L. Rao Bhavan, Irrigation Offices Compound, Vijayawada,
19	G.Sai Krishna Ashok	Student	4/4 B.Tech Student
20	R.V.Narayana	Representatives	3/4 B.Tech Student

c.c.to:

1. Principal's table
2. HOD-Civil Engg.
3. All the above Members
4. Office file.

(Signature)
 PRINCIPAL
S.R.K.R. Engineering College
(Autonomous)
 Chinna Amiram, Bhimavaram-534 204.



SAGIRAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

Accredited by NAAC with 'A' Grade

Recognised as Scientific and Industrial Research Organisation

CHINNA AMIRAM (P.O): BHIMAVARAM : W.G.D.L. A.P. INDIA : PIN: 534 204

Dr. M. Jagapathi Raju

M.Tech (IIT, KGP), Ph.D (A.U.), FIE, MISTE

Vice-Principal (Academics)

and

In-charge PRINCIPAL



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Email: profmjraru999@gmail.com
principal@srkrec.ac.in
Website: www.srkrec.ac.in

SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr. M. Viswanadham
Professor
Dept. of Civil Engineering
JNTUH College of Engineering (A)
Kukatpally, Hyderabad-500085.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

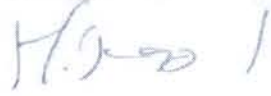
We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

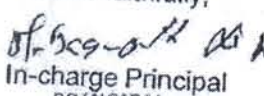
The Board of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	DATE	TIME
1	Civil Engineering	22.04.2019	2.00 P.M
2	Computer Science & Engineering	22.04.2019	2.00 P.M
3	Electronics & Communication Engineering	22.04.2019	2.00 P.M
4	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
5	Information Technology	22.04.2019	2.00 P.M
6	Mechanical Engineering	22.04.2019	2.00 P.M
7	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204



Yours faithfully,

In-charge Principal
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204

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SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr. K. Sudhakar Reddy
Professor
Department of Civil Engineering
Indian Institute of Technology Kharagpur
Kharagpur-721302

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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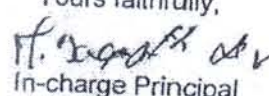
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S.R.K.R. Engg. College
BHIMAVARAM-534 204



Yours faithfully,

In-charge Principal

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SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr. K. Sudhakar Reddy
Professor
Department of Civil Engineering
Indian Institute of Technology Kharagpur
Kharagpur-721302

Dear Sir,

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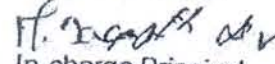
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BHIMAVARAM-534 204



Yours faithfully,

In-charge Principal
PRINCIPAL
S.R.K.R. Engg. College
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SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr.T.D. Gunneswara Rao
Professor
Department of Civil Engineering
National Institute of Technology Warangal
Warangal-506004.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.


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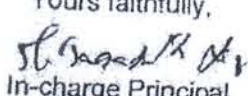
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S.R.K.R. Engg. College
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GADLAVALLERU, KRISHNA DISTRICT, AP, INDIA

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principal@srkrec.ac.in

Website: www.srkrec.ac.in

SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr. S.R.K. Reddy
Professor & Mentor (AS&A)
Dept. of Civil Engineering
Gudlalleru Engineering College
Gudlalleru, Krishna District-521356.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.


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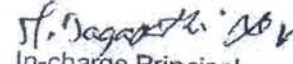
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BHIMAVARAM - 534 204



Yours faithfully,

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BHIMAVARAM-534 204

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SRKREC/BOS-1/CE/2018-19

Date: 15.04.2019

To
Dr. P. Kodanda Rama Rao
Chairman, IE(I) AP State Centre
Dr. K.L. Rao Bhavan
Irrigation Offices Compound,
Vijayawada, Krishna Distict-520002.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

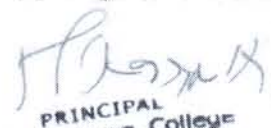
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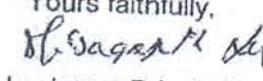
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Yours faithfully,

In-charge Principal

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204

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Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To
Dr. P. Gandhi
Chief Scientist
Structural Engineering Research Center
CSIR-SERC Taramani
Chennai-600113.

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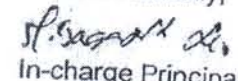
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PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM-534204
DEPARTMENT OF CIVIL ENGINEERING

Dt: 18-04-2019

CIRCULAR

This is to inform you that the S. R. K. R. Engineering college will convene a joint B.O.S. meeting on 22-04-2019 at 11:00AM In I-block followed by B.O.S. meeting on 22-04-2019 at 02:00 PM in department of Civil Engineering (Room No. R105, HOD Office). In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

a) Joint Board of studies meeting:

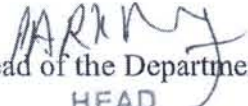
1. Approval of schemes for IV year B.Tech (R16) of all branches.
2. Approval of schemes for III year B.Tech (R17) of all branches.
3. Any other matter with the permission of Chair.

b) Department B.O.S. Meeting:

1. Approval of syllabus for the IV year B.Tech (R16) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
2. Approval of syllabus for the III year B.Tech (R17) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
3. Any other item with the permission of the Chair.

C.C to:

1. The Members of Board of studies
2. Office file


Head of the Department
HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAAMIRAM
BHIMAVARAM-534 204.


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.



**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE
(AUTONOMOUS)**

BOARD OF STUDIES MEETING

Date: 22nd April 2019

AGENDA

(a) : Joint Board of Studies Meeting at 11.00 AM in A.C. Auditorium, I-Block.

1. Approval of schemes for IV Year B.Tech (R16) of all branches.
2. Approval of schemes for III Year B.Tech (R17) of all branches.
3. Any other item with the permission of Chair.

(b) Board of Studies Meeting at 2.00 P.M. in respective Departments

1. Approval of Syllabus for the IV year B.Tech (R16) courses related to the respective branches as per the schemes approved in the Joint Board of Studies meeting.
2. Approval of Syllabus for the III year B.Tech (R17) courses related to the respective branches as per the schemes approved in the Joint Board of Studies meeting.
3. Any other item with the permission of Chair

H. Nagappa
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204



H. Nagappa
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

ARI
HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINAAMIRAM
BHIMAVARAM-534 204.

A joint ^(R-17)_{R-16} board of studies meeting was conducted in the chamber of the Head, Department of Civil Engineering with its members present on 22nd of April 2019 i.e. Monday at 1400hrs.

<u>The members present</u>	<u>Signatures</u>
1 Dr D S R NURTY	
2 Dr. S.R.K. Reddy	
3 Dr. T.D. Gunnam Rao	
4 Dr. P. Kodanda Rama Rao	
5 Dr. A. Subrahmanyan Prasad	
6 K. Padmanabha Raju	
7 K. Bhaskar	
8 Prof V. S. RAJU	
9 Dr A. C. S. V. PRASAD	
10 V. Venkateswara Rao	
11 J. V. N. RAJU	
12 Dr. P. A. R. K. RAJU	
13 Dr. H. Jagapathi Rao	

H. Jagapathi Rao

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S.R.K.R. Engg. College
BHIMAVARAM-534 204.

<u>Student Representatives</u>	<u>Signature</u>	<u>HEAD</u>
1. G. Sai Krishna (315175708047)		
2. R. Venkata Narayana (160101149)		

Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINA AMIRAM
BHIMAVARAM-534 204.

MINUTES OF THE MEETING

Dr. P.A.Ramakrishnam Raju, Head of the Department of Civil Engineering has conducted the proceedings of the (R16 (AU Autonomous), R17 (JNTUK Autonomous)) joint Board of Studies Meeting specifically for approving the syllabi of IV B.Tech. and III B.Tech. for both odd and even semesters. He has initiated the proceedings by welcoming all the members and requested their active participation for outcome of the best possible subject content.

1. Dr. D.S.R. Murthy, Chairman, BoS, Dept. of CE, AU, Visakhapatnam and other Structural Engineering experts have discussed the quantum of coverage in structural stream subjects and suggested redistribution, addition, deletion of content to make the progress of learning more even-paced along the semesters.
2. Dr. T.D. Gunneswara Rao, Professor, NIT Warangal and other external experts have gone through the Project topics identified for the R-16 IV B.Tech. curriculum and suggested that students should be able to work on 'live' projects and connect the social and economic impacts of their work to contemporary societal issues.
3. Dr. P.Kodandarama Rao, the Chairman of Institution of Engineers (India) AP State Centre has emphasised the need for students to work on multiple Civil Engineering aspects in their B.Tech. project to cultivate the habit of collaboration between various disciplines.
4. Dr. S.Ramakrishna Reddy, the expert on outcome based education has recommended the distribution of Project/Practical Learning Credits across the 2nd year, 3rd year summer and IV year to give a variety of hands-on learning experiences including Survey Camp, Mini Project, Internship, Practical Training and CAD Computer Software courses.
5. The Chairman has informed the board about the WIIP (Weekend Industry Interaction Programme) initiated in the current semester for III B.Tech. students and the encouraging response from students. The external experts have expressed satisfaction and recommended its continuation.
6. The Chairman also informed the work carried out by students under the asset mapping exercise for populating NRSC Bhuvan portal with locations of assets in various villages of the Godavari Districts. The external experts suggested that internships could be designed around such activities.
7. The external experts wondering about the quantum of data collected under asset mapping in NRSC Bhuvan project, pondered on the possibilities of creating decision support systems (GIS) that could assist law-makers of the region in identifying the development-environment issues for proper legislation and resolution through governance.

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Minutes of the meeting - continued

Dr.P.A.Ramakrishnam Raju, Head of the Department of Civil Engineering has concluded the meeting by thanking all the members for their active participation in the discussions and for constituting realistic syllabi for the IV and III B.Tech. courses keeping the current industry requirements and student receptivity in mind. In his closing remarks, he requested all the members to utilise their professional network to help students get internships & jobs as well as projects for research and consultancy.

1. It is resolved that the suggestions given by external BoS members on Structural Engineering subjects shall be considered in redistributing the content of the subjects to make them evenly progressing along the semesters.
2. It is resolved to accept the changes suggested by the experts in various subjects and hence the proposed syllabi with the modifications suggested as final for the IV B.Tech. courses under R16 Andhra University (Autonomous) regulations.
3. It is resolved that the practise oriented modules such as 'Weekend Industry Institute Interaction' programmes and student internships shall be included as optional non-credit courses where possible for R-17 students who shall be entering the 2nd and 3rd year respectively in June 2019.
4. It is resolved to accept the changes suggested by the experts in some subjects and hence the proposed syllabi with the modifications suggested as final for the III B.Tech. courses under R17 JNTU K (Autonomous) regulations.
5. It is resolved further resolved that Choice Based Credit System (CBCS) and Practise Oriented Programmes such as Practical Training, Internships, Survey Camps, Field Visits, Live projects etc., will be incorporated with credits in the R19 curriculum which shall be shortly put before the BoS and implemented from June 2019.
6. It is also resolved that students shall be engaged in the outreach of the departmental academic and research outputs to the stakeholders in the region through programmes such as Unnat Bharat Abhiyan 2.0, thus working towards attaining more of the 12 Programme Outcomes beyond the technical fold.

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7. Practical orientation should be there for the students in addition to academics. So, suggested to include more field trips in the curriculum.

8. Curriculum feedbacks have been collected from various stakeholders and discussions are made with the members regarding feedbacks.

MARU

HEAD
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BHIMAVARAM-534 204.

H. Jagapathi Reddy

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S.R.K.R. Engg. College
BHIMAVARAM-534 204.

RESOLUTIONS FOR THE MEETING DATED 22-04-2019

1. It is resolved that the suggestions given by external BoS members on Structural Engineering subjects shall be considered in redistributing the content of the subjects to make them evenly progressing along the semesters.
2. It is resolved to accept the changes suggested by the experts in various subjects and hence the proposed syllabi with the modifications suggested as final for the IV B.Tech. courses under R16 Andhra University (Autonomous) regulations.



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Regulation: 16				IV/IV - B.Tech. I - Semester					
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B16 CE4101	Water Resource Engineering-I	ES	4	3	1	--	30	70	100
B16 CE4102	Transportation Engineering-I	ES	4	3	1	--	30	70	100
B16 CE4103	Project planning and Management	ES	4	3	1	--	30	70	100
B16 CE4104	Computer Applications in Civil Engineering lab	ES	2	--	--	3	50	50	100
B16 CE4105	Transportation Engineering Lab	ES	2	--	--	3	50	50	100
B16 CE4106	Project Phase-I	ES	2	--	--	3	50	--	50
Total			18	9	3	9	240	310	550

H. Nagappa Reddy

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MARILY

**HEAD
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BHIMAVARAM-534 204.**



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Regulation: 16		IV/IV - B.Tech. II - Semester							
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2016-17 admitted Batch onwards)									
CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B16CE4201	Water Resource Engineering-II	ES	4	3	1	--	30	70	100
B16CE4202	Transportation Engineering-II	ES	4	3	1	--	30	70	100
B16CE4203	Irrigation Structures Design & Drawing	ES	2	1	-	2	50	50	100
B16CE4204	Project Phase-II	ES	12	-	-	9	50	100	150
Total			22	7	2	11	160	290	450

3. It is resolved that the practise oriented modules such as 'Weekend Industry Institute Interaction' programmes and student internships shall be included as optional non-credit courses where possible for R-17 students who shall be entering the 2nd and 3rd year respectively in June 2019.

4. It is resolved to accept the changes suggested by the experts in some subjects and hence the proposed syllabi with the modifications suggested as final for the III B.Tech. courses under R17 JNTU K (Autonomous) regulations.

H. Nagapalli. Reddy

**PRINCIPAL
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MARUJ

**HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAMIRAM
BHIMAVARAM-534 204.**



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Estd:1980

Regulation: R17		II / IV - B.Tech. II- Semester								
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B17 CE 2201	Structural Analysis -I	BS	3	3	1	--	30	70	100	
B17 CE 2202	Fluid Mechanics- I	ES	3	3	1	--	30	70	100	
B17 CE 2203	Environmental Engineering - II	ES	3	3	1	--	30	70	100	
B17 CE 2204	Concrete Technology	ES	3	3	1	--	30	70	100	
B17 CE 2205	Surveying - II	ES	3	3	1	--	30	70	100	
B17 CE 2206	Remote Sensing & GIS	ES	3	3	1	--	30	70	100	
B17 CE 2207	Surveying Field Work	ES	2	--	--	3	50	50	100	
B17 CE 2208	Fluid Mechanics Lab- I	ES	2	--	--	3	50	50	100	
B17 CE 2209	Industry Oriented Technology Lab	ES	1	--	--	2	50	--	50	
B17BS 2206	English Proficiency-II	BS	--	1	1	--	--	--	--	
TOTAL			23	19	7	8	330	520	850	



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Regulation: R17		III / IV - B.Tech. II- Semester								
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B17 CE3201	Reinforced Concrete Structures-II		3	3	1	--	30	70	100	
B17 CE3202	Steel Structures-II		3	3	1	--	30	70	100	
B17 CE3203	Geotechnical Engineering-II		3	3	1	--	30	70	100	
B17 CE3204	Transportation Engineering-I		3	3	1	--	30	70	100	
B17 CE3205	Air pollution and Control		3	3	1	--	30	70	100	
#OE	Open Elective		3	3	1	--	30	70	100	
B17 CE3209	Geotechnical Engineering Lab		2	--	--	3	50	50	100	
B17 CE3210	Concrete Technology Lab		2	--	--	3	50	50	100	
B17BS3201	Employability Skills		1	--	3	--	30	70	100	
B17BS3202	Basic Coding		1	--	--	3	50	50	100	
TOTAL			24	18	9	9	360	640	1000	

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Open Elective	B17CS3213	Data Base Management Systems
	B17CE3206	Alternative Energy Sources
	B17CE3207	Wastewater Management
	B17CE3208	Green Fuel Technologies

HEAD
 Dept. of Civil Engg.
 S.R.K.R. C.

5. It is resolved further resolved that Choice Based Credit System (CBCS) and Practise Oriented Programmes such as Practical Training, Internships, Survey Camps, Field Visits, Live projects etc., will be incorporated with credits in the R19 curriculum which shall be shortly put before the BoS and implemented from June 2019.

6. It is also resolved that students shall be engaged in the outreach of the departmental academic and research outputs to the stakeholders in the region through programmes such as Unnat Bharat Abhiyan 2.0, thus working towards attaining more of the 12 Programme Outcomes beyond the technical fold.

7. Practical orientation should be there for the students in addition to academics. So, suggested to include more field trips in the curriculum.

8. Curriculum feedbacks have been collected from various stakeholders and discussions are made with the members regarding feedbacks.

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Estd:1980

Regulation: R17		III / IV - B.Tech. I- Semester								
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B17 CE3101	Structural Analysis -II	ES	3	3	1	-	30	70	100	
B17 CE3102	Reinforced Concrete Structures -I	ES	3	3	1	-	30	70	100	
B17 CE3103	Steel Structures- I	ES	3	3	1	-	30	70	100	
B17 CE3104	Geotechnical Engineering -I	ES	3	3	1	-	30	70	100	
B17 CE3105	Fluid Mechanics -II	ES	3	3	1	-	30	70	100	
B17 CE3106	Estimation & Quantity Surveying	ES	3	3	1	-	30	70	100	
B17 CE3107	Environmental Engineering Lab	ES	2	--	--	3	50	50	100	
B17 CE3108	Fluid Mechanics LabII	ES	2	--	--	3	50	50	100	
B17 CE3109	Geographic Information Systems Laboratory	ES	1	--	--	2	50	50	100	
B17BS3101	Problem Solving & Linguistic Competence	BS	1	--	3	-	30	70	100	
B17BS3105	IPR & Patents		--	--	2	-	-	-	-	
TOTAL			24	18	11	8	360	640	1000	



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Estd:1980

Regulation: R17		III / IV - B.Tech. II- Semester								
CIVIL ENGINEERING (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B17 CE3201	Reinforced Concrete Structures-II		3	3	1	--	30	70	100	
B17 CE3202	Steel Structures-II		3	3	1	--	30	70	100	
B17 CE3203	Geotechnical Engineering-II		3	3	1	--	30	70	100	
B17 CE3204	Transportation Engineering-I		3	3	1	--	30	70	100	
B17 CE3205	Air pollution and Control		3	3	1	--	30	70	100	
#OE	Open Elective		3	3	1	--	30	70	100	
B17 CE3209	Geotechnical Engineering Lab		2	--	--	3	50	50	100	
B17 CE3210	Concrete Technology Lab		2	--	--	3	50	50	100	
B17BS3201	Employability Skills		1	--	3	--	30	70	100	
B17BS3202	Basic Coding		1	--	--	3	50	50	100	
TOTAL			24	18	9	9	360	640	1000	

Open Elective	Course Code	Course Name
	B17CS3213	Data Base Management Systems
	B17CE3206	Alternative Energy Sources
	B17CE3207	Wastewater Management
	B17CE3208	Green Fuel Technologies

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Regulation: R19			I / IV - B.Tech. I - Semester							
CIVIL ENGINEERING (Under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B19 HS1101	English	HS	3	3	--	--	25	75	100	
B19 BS1101	Mathematics-I	BS	3	3	--	--	25	75	100	
B19 BS1103	Engineering Physics	BS	3	3	--	--	25	75	100	
B19 CE1101	Engineering Mechanics	ES	4	3	1	--	25	75	100	
B19 ME 1101	Engineering Drawing	ES	2.5	1	--	3	25	75	100	
B19BS1106	Engineering Geology Lab	ES	1.5	--	--	3	20	30	50	
B19 HS1102	English Lab	HS	1.5	--	--	3	20	30	50	
B19 CE1102	Engineering Exploration Project	PR	1	--	--	2	--	50	50	
TOTAL			19.5	13	1	11	165	485	650	

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HEAD

Dept. of Civil Engg.
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BHIMAVARAM-534 204.

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 CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534 204

Dr. M.Jagapathi Raju
 M.Tech. (IIT,KGP), Ph.D.(A.U), FIE,MISTE,
Vice- Principal (Academics)
 and
PRINCIPAL (I/c.)



Phones: Off : EPABX :08816-223332 Ext.201
 College :08816-222748
 Fax:08816-224516
 Mobile No.9848773515
 Emails: profmjraju999@gmail.com
principal@srkrec.ac.in
 Web Site : www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CE/4

Date: 01-08-2019

Sub: Appointment of BoS members for Civil Engineering department-Reg.

The following members are nominated as Board of Studies members for the Department of Civil Engineering. This order will come into force with immediate effect until further orders.

S. No	Name	Position in the committee	Associated with
1	Dr. A. Subrahmanyam Raju	Chairman	Professor & HOD, Dept. of Civil Engineering, SRKR Engineering College
2	Dr. M. Jagapathi Raju	Faculty of each Specialization	Vice Principal (Academics) & In-charge Principal,
3	Dr. P.A.R.K. Raju		Professor & Dean (R&D), Dept. of Civil Engg, SRKREC
4	Dr. B. R. Phani Kumar		Professor, Dept. of Civil Engg, SRKREC
5	Prof. V. Siva Rama Raju		Professor, Dept. of Civil Engg, SRKREC
6	Prof. K. Bhaskar		Professor, Dept. of Civil Engg, SRKREC
7	Prof. V. Rama Raju		Professor, Dept. of Civil Engg, SRKREC
8	Sri K.Padmanabha Raju		AssocProf, Dept. of Civil Engg, SRKREC
9	Sri V.Venkateswara Raju		Assoc Prof, Dept. of Civil Engg, SRKREC
10	Dr. A.C.S.V.Prasad		Assoc Prof, Dept. of Civil Engg, SRKREC
11	Dr.T.D. Gunneswara Rao		Experts from Other Universities
12	Dr. S.R.K. Reddy	Professor & Mentor (AS&A), Dept. of Civil Engineering, GEC Gudlavalleru, Krishna District	
13	Dr. V. Ravindra	JNTUK Nominee	Professor of Civil Engineering, University College of Engineering Kakinada (UCEK), JNTU Kakinada
14	Dr. P. Gandhi	Expert from Research Organization	Chief Scientist, CSIR-Structural Engineering Research Center, CSIR-SERC, Taramani, Chennai-600113
15	Dr. P. Kodanda Rama Rao	Expert from Professional Body	Chairman, IE(I) AP State Centre, Dr. K.L. Rao Bhavan, Irrigation Offices Compound, Vijayawada, Krishna Distict-520002.
16	Student Representatives		

c.c.to:

- The I/c.Principal's Office
- HOD-Civil Engg
- All the above Members 4 Office file.

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 S.R.K.R. Engg. College
 BHIMAVARAM-534 204.



I/c. PRINCIPAL
 PRINCIPAL
 S.R.K.R. Engg. College
 BHIMAVARAM-534 204



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM-534204
DEPARTMENT OF CIVIL ENGINEERING

Dt: 05-08-2019

CIRCULAR

This is to inform you that the S. R. K. R. Engineering college will convene a joint B.O.S. meeting on 19-08-2019 at 11:00AM In I-block followed by B.O.S. meeting on 19-08-2019 at 02:00 PM in the department of Civil Engineering (Room No. R105, HOD Office). In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

a) Joint Board of studies meeting:

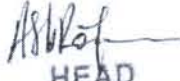
1. Approval of Academic regulations (R19) for B. Tech and M. Tech.
2. Approval of Ist year B.T
3. B.Tech (R19) & M.Tech (R19) schemes of all branches.
4. Any other matter with the permission of Chair.

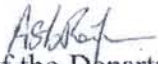
b) Department B.O.S. Meeting:

1. Approval of syllabus for the first year B. Tech (R19) & M. Tech (R19) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
2. Approval of schemes for B. Tech (R19) 2nd, 3rd & 4th years and schemes for M. Tech (R19) 2nd year.
3. Any other matter with the permission of Chair.

C.C to:

1. The Members of Board of studies
2. Office file


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Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAAMIRAM
BHIMAVARAM-534 204.


Head of the Department
HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAAMIRAM
BHIMAVARAM-534 204.


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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE
(AUTONOMOUS)

BOARD OF STUDIES MEETING

Date: 19th August 2019

AGENDA

(a) Joint Board of Studies Meeting at 11.00 AM in A.C. Auditorium, I-Block.

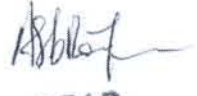
1. Approval of Academic Regulations (R19) for B.Tech & M.Tech.
2. Approval of first year B.Tech (R19) & M.Tech (R19) schemes for all branches.
3. Any other item with the permission of the Chair.

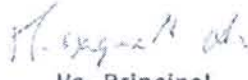
(b) Board of Studies Meeting at 2.00 P.M. in respective Departments

1. Approval of Syllabus for the first year courses B Tech (R19) & M.tech (R19) related to the respective branches as per the schemes approved in the Joint Board.
2. Approval of Schemes for B.Tech (R19) 2nd, 3rd, & 4th years and Schemes for M.Tech (R19) 2nd year.
3. Any other item with the permission of the Chair.

Combined Board of Studies Meeting at 2.00 P.M. in S-Block (Physical Sciences Block)

1. Approval of Syllabus for the first year B.Tech (R19) courses related to Engineering Mathematics, Physics, Chemistry, Humanities and Social Sciences as per the Schemes approved in the Joint Board.
2. Any other item with the permission of the Chair.


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BHIMAVARAM-534 204.


I/c. Principal
S.R.K.R. Engineering College
(Autonomous)
China Amiram, Bhimavaram-534 204


PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

The Joint (R-19) board of studies meeting was conducted in the chamber of the Head, Department of Civil Engineering with its members present on 19-08-2019 (i.e) Monday at 2.00PM.

The Members present	Signatures
1. DR. S.R.K. REDDY	(Signature)
2. Dr. T.D. Gunneswara Rao	(Signature)
3. Prof. V. SIVARAMA RAU	(Signature)
4. P. Gandhi	(Signature)
5. Dr. P.A.R.K. RAJU	(Signature)
6. V. Venkateswara Reddy	(Signature)
7. Prof. K. Bhasakar	(Signature)
8. S.K.V.S.T. LAVAKUMAR	(Signature)
9. Prof. V. Rama Raju	(Signature)
10. Dr. B.R. PHANI KUMAR	(Signature)
11. Dr. V. Ravindra	(Signature)
12. Mr. A.C.S.V. PRASAD	(Signature)
13. Dr. A.S. RAJU	(Signature)

1) R. Sai Pavan Kumar	160101206	R. Sai Pavan Kumar
2) A. Navaneeth Sagar	17891A0110	A. Navaneeth Sagar

H. Jagapathi Reddy
 PRINCIPAL
 S.R.K.R. Engg. College
 BHIMAVARAM-534 204.

(Signature)
 HEAD
 Dept. of Civil Engg.
 S.R.K.R. Engg. College
 CHINAAMIRAM
 BHIMAVARAM-534 204.

Dr. A. Subrahmanyam Raju, Head of the department of civil engineering has conducted the proceedings of the (R19 (JNTU Autonomous)) first year Board of Studies meeting specifically for approving the syllabus. He has initiated the proceedings by welcoming all the members and requested them to give possible best measures in the syllabus framing.

1. Dr. S.R.K.Reddy, the expert on outcome based education has emphasized on the significance of core courses in the curriculum.
2. Dr. T.D.Gunneswara Rao, Professor, NIT Warangal stressed that the credits* planning is crucial for individual core courses in R19 syllabus.
3. Dr. P. Gandhi, Scientist, SERC, Chennai has suggested that the industrial training and research orientation is very crucial for students. He has emphasized that the students should get max benefit from software tools planned in the curriculum itself before they enter into the industries.
4. All the other members have suggested that the core courses should be given maximum importance while planning the curriculum. They also mentioned that the credits should be well planned for core courses giving less significance to other life sciences.

HOD thanked all the members who have participated in the meeting.

H. Jagapathi Reddy

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[Signature]

HEAD
Dept. of Civil Engg.
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RESOLUTIONS FOR THE MEETING DATED 19-08-2019

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3. Dr. P. Gandhi, Scientist, SERC, Chennai has suggested that the industrial training and research orientation is very crucial for students. He has emphasized that the students should get max benefit from software tools planned in the curriculum itself before they enter into the industries.
4. All the other members have suggested that the core courses should be given maximum importance while planning the curriculum. They also mentioned that the credits should be well planned for core courses giving less significance to other life sciences.



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)
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Regulation: R19			I / IV - B.Tech. 1 - Semester						
CIVIL ENGINEERING (Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
B19 HS1101	English	HS	3	3	--	--	25	75	100
B19 BS1101	Mathematics-I	BS	3	3	--	--	25	75	100
B19 BS1103	Engineering Physics	BS	3	3	--	--	25	75	100
B19 CE1101	Engineering Mechanics	ES	4	3	1	--	25	75	100
B19 ME 1101	Engineering Drawing	ES	2.5	1	--	3	25	75	100
B19BS1106	Engineering Geology Lab	ES	1.5	--	--	3	20	30	50
B19 HS1102	English Lab	HS	1.5	--	--	3	20	30	50
B19 CE1102	Engineering Exploration Project	PR	1	--	--	2	--	50	50
TOTAL			19.5	13	1	11	165	485	650

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[Signature]
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Task 8:

- Final Report Submission and Presentation

Regulation: R19		I / IV - B.Tech. II - Semester								
CIVIL ENGINEERING										
(Under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION										
(With effect from 2019-20 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B19 BS 1201	Mathematics-II	BS	3	3	-	-	25	75	100	
B19 BS 1202	Mathematics-III	BS	3	3	-	-	25	75	100	
B19 BS 1204	Engineering Chemistry	BS	3	3	-	-	25	75	100	
B19 CS1201	Programming for Problem Solving using C	ES	3	3	--	--	25	75	100	
B19 CE 1201	Computer Aided Engineering Drawing	ES	2.5	1	--	3	25	75	100	
B19 BS 1207	Engineering Chemistry Lab	BS	1.5	--	--	3	20	30	50	
B19 HS 1202	Communication Skills Lab	HS	1.5	--	--	3	20	30	50	
B19 CS 1204	Programming for Problem Solving Using C Lab	ES	1.5	--	--	3	20	30	50	
B19 ME 1205	Workshop Practice Lab	ES	1.5	--	--	3	20	30	50	
B19 MC 1203	Environmental Science	MC	0	3	--	--	--	--	--	
TOTAL			20.5	16	--	15	205	495	700	

H. Nagapalli. Reddy

PRINCIPAL
S.R.K.R. Engg. College
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Asst. Prof.

HEAD

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Regulation: R19		I / II - M.Tech. I - Semester								
STRUCTURAL ENGINEERING (Under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
M19 ST1101	Theory of Elasticity	PC	3	3	0	0	25	75	100	
M19 ST1102	Structural Dynamics	PC	3	3	0	0	25	75	100	
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100	
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100	
M19 ST1109	Advanced Concrete Technology	PC	2	2	0	0	25	75	100	
M19ST1110	Advanced Concrete Laboratory	PC	2	0	0	4	25	75	100	
M19 ST1111	Advanced Structural Engineering Laboratory	PC	2	0	0	4	25	75	100	
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0	
TOTAL			18	16	0	8	175	525	700	

	Code	Course		Code	Course
#PE-I	M19ST1103	Matrix Methods of Structures	#AC-1 & 2	M19AC0001	English for Research Paper Writing
	M19ST1104	Analytical & Numerical Methods for Structural Engineering		M19AC0002	Disaster Management
	M19ST1105	Design of RCC Foundations		M19AC0003	Sanskrit for Technical Knowledge
#PE-II	M19ST1106	Bridge Engineering	M19AC0004	Value Education	
	M19ST1107	Repair and Rehabilitation of Structures	M19AC0005	Constitution of India	
	M19ST1108	Advanced Reinforced Concrete Design	M19AC0006	Pedagogy Studies	
			M19AC0007	Stress Management by Yoga	
			M19AC0008	Personality Development through Life Enlightenment Skills.	

H. Jagapathi Reddy
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Estd:1980

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Regulation: R19		I/IV - M.Tech. II - Semester							
CIVIL ENGINEERING (Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19ST1201	Finite Element Methods in Structural Engineering	PC	3	3	--	--	25	75	100
M19ST1202	Theory of Plates and Shells	PC	3	3	--	--	25	75	100
#PE-III	Program Elective-III	PE	3	3	--	--	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	--	--	25	75	100
M19ST1209	Computer Aided Design Laboratory	PC	2	--	--	4	25	75	100
M19ST1210	Design of Structures Laboratory	PC	2	--	--	4	2	75	100
M19ST1211	Mini Project With Seminar	PC	2	--	--	4	100	--	100
M19AC0005	AuditCourse-2	AC	--	2	--	--	--	--	--
TOTAL			18	14	0	12	250	450	700

	Code	Course
#PE-III	M19ST1203	Stability of Structures
	M19ST1204	Advanced Steel Design
	M19ST1205	Analysis of Offshore Structures
#PE-IV	M19ST1206	Earthquake Resistant Design of Buildings
	M19ST1207	Structural Optimization Techniques
	M19ST1208	Earth Retaining Structures

H. Nagappa. Reddy
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